

DISTRIBUTED BUFFERING SYSTEM HAVING PROGRAMMABLE  
INTERCONNECTING LOGIC AND APPLICATIONS THEREOF

ABSTRACT OF THE DISCLOSURE

A distributed buffering system includes at least one input buffer, at least one serializing module, a at least one deserializing module, at least one output buffer, and a programmable logic device. The input buffer is operably coupled to store at least one data block of incoming data. The serializing module serializes the data block as it is retrieved from the input buffer to produce a serial stream of data. The programmable logic device receives the serial stream of data and distributes it to one or more of the at least one deserializing modules. The at least one deserializing module converts the serial stream back into the data block. The recaptured data block is then provided to the corresponding output buffer, which stores the recaptured data.

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